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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/775,085	0	2/11/2004	Takehiko Iwanaga	00862.023453 1601	
5514	7590	03/09/2005		EXAMINER	
FITZPATR	ICK CEL	LA HARPER &	KIM, PETER B		
	30 ROCKEFELLER PLAZA NEW YORK, NY 10112			ART UNIT	PAPER NUMBER
11211 1014				2851	

DATE MAILED: 03/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/775,085	IWANAGA					
Office Action Summary	Examiner	Art Unit					
	Peter B. Kim	2851					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status		·					
1) Responsive to communication(s) filed on							
2a) This action is <b>FINAL</b> . 2b) ☐ This	action is non-final.						
·—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
<ul> <li>4)  Claim(s) 1-18 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdraw</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-4,7-11 and 14-18 is/are rejected.</li> <li>7)  Claim(s) 5,6,12 and 13 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	wn from consideration.						
Application Papers							
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on 11 February 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	e: a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 32004.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 7-10, and 14-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Nishi et al. (Nishi) (2005/0024610).

Nishi discloses a scanning exposure apparatus comprising: a stage unit (WST) which supports and moves a substrate (W); and a control unit which starts exposing the substrate after a start of a second section in an acceleration section of said stage unit sequentially including a first section in which a jerk is positive, the second section in which a jerk is 0, and a third section in which a jerk is negative, and the control unit which ends exposing the substrate before an end of a five section in a deceleration section of said stage unit sequentially including a fourth section in which a jerk is negative, the fifth section in which a jerk is 0, and a sixth section in which a jerk is positive (See Fig. 8A).

Nishi discloses apparatus wherein a time ratio of the first, the second and the third section is 3:2:3 (See Fig. 8A), and the fourth, fifth and sixth section is 3:2:3 (See Fig. 8A), and a device manufacturing method comprising the stop of exposing a substrate.

Application/Control Number: 10/775,085

Art Unit: 2851

Claims 1, 4, 8, 11, and 15-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Yuan et al. (Yuan) (6,320,345).

Yuan discloses a scanning exposure apparatus comprising: a stage unit (162) which supports and moves a substrate (160); and a control unit which starts exposing the substrate after a start of a second section in an acceleration section of said stage unit sequentially including a first section in which a jerk is positive, the second section in which a jerk is 0, and a third section in which a jerk is negative, and the control unit which ends exposing the substrate before an end of a five section in a deceleration section of said stage unit sequentially including a fourth section in which a jerk is negative, the fifth section in which a jerk is 0, and a sixth section in which a jerk is positive (See Fig. 1D).

## Allowable Subject Matter

Claims 5, 6, 12 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

None of the prior art of record teaches or teaches a scanning exposure apparatus comprising a stage control with sequentially including the first section having positive uniform jerk, a second section of 0 jerk and a third section of negative uniform jerk where the time ratio of each section is 3:2:3.

None of the prior art of record teaches or teaches a scanning exposure apparatus comprising a stage control with sequentially including the fourth section having positive uniform

jerk, a fifth section of 0 jerk and a sixth section of negative uniform jerk where the time ratio of each section is 3:2:3.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter B. Kim whose telephone number is (571) 272-2120. The examiner can normally be reached on 8:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**Primary Examiner** Art Unit 2851

March 6, 2005